

RAMP E_ARMY_A

Point 970 N 1,919,887.0608 E 1,064,613.9595 Sta 0+00.00

Course from 970 to PC E ARMY A-1 S 2° 56' 51.24" W Dist 305.5932

Curve Data

Curve E ARMY A-1
 P.I. Station 6+07.75 N 1,919,280.1113 E 1,064,582.7076
 Delta = 38° 28' 09.41" (RT)
 Degree = 6° 36' 58.11"
 Tangent = 302.1603
 Length = 581.4459
 Radius = 866.0000
 External = 51.2005
 Long Chord = 570.5858
 Mid. Ord. = 48.3424
 P.C. Station 3+05.59 N 1,919,581.8719 E 1,064,598.2453
 P.T. Station 8+87.04 N 1,919,053.5163 E 1,064,382.8188
 C.C. N 1,919,626.4034 E 1,063,733.3910
 Back = S 2° 56' 51.24" W
 Ahead = S 41° 25' 00.65" W
 Chord Bear = S 22° 10' 55.95" W

Course from PT E ARMY A-1 to PC E ARMY A-2 S 41° 25' 00.65" W Dist 235.9341

Curve Data

Curve E ARMY A-2
 P.I. Station 13+80.31 N 1,918,683.6070 E 1,064,056.5065
 Delta = 32° 40' 14.47" (LT)
 Degree = 6° 31' 32.57"
 Tangent = 257.3332
 Length = 500.6453
 Radius = 878.0000
 External = 36.9341
 Long Chord = 493.8903
 Mid. Ord. = 35.4431
 P.C. Station 11+22.97 N 1,918,876.5854 E 1,064,226.7407
 P.T. Station 16+23.62 N 1,918,429.2662 E 1,064,017.3771
 C.C. N 1,918,295.7600 E 1,064,885.1675
 Back = S 41° 25' 00.65" W
 Ahead = S 8° 44' 46.18" W
 Chord Bear = S 25° 04' 53.42" W

Course from PT E ARMY A-2 to 971 S 8° 44' 46.18" W Dist 155.3988

Point 971 N 1,918,275.6744 E 1,063,993.7476 Sta 17+79.02

RAMP E_ARMY_B

Curve Data

Curve E ARMY B-1
 P.I. Station 1+29.78 N 1,918,594.1317 E 1,064,613.8083
 Delta = 49° 47' 35.60" (LT)
 Degree = 20° 29' 24.37"
 Tangent = 129.7782
 Length = 243.0111
 Radius = 279.6266
 External = 28.6483
 Long Chord = 235.4356
 Mid. Ord. = 25.9860
 P.C. Station 0+00.00 N 1,918,464.5080 E 1,064,620.1395
 P.T. Station 2+43.01 N 1,918,672.9748 E 1,064,510.7250
 C.C. N 1,918,450.8665 E 1,064,340.8459
 Back = N 2° 47' 46.60" W
 Ahead = N 52° 35' 22.20" W
 Chord Bear = N 27° 41' 34.40" W

Curve Data

Curve E ARMY B-2
 P.I. Station 55+44.03 N 1,921,619.1538 E 1,060,103.8150
 Delta = 174° 25' 56.32" (LT)
 Degree = 22° 13' 40.50"
 Tangent = 5,301.0213
 Length = 784.7443
 Radius = 257.7650
 External = 5,049.5196
 Long Chord = 514.9215
 Mid. Ord. = 245.2458
 P.C. Station 2+43.01 N 1,918,672.9748 E 1,064,510.7250
 P.T. Station 10+27.76 N 1,918,259.3084 E 1,064,204.0912
 C.C. N 1,918,458.6865 E 1,064,367.4655
 Back = N 56° 14' 09.02" W
 Ahead = S 50° 40' 05.33" W
 Chord Bear = S 36° 32' 52.82" W

Curve Data

Curve E ARMY B-3
 P.I. Station 11+51.55 N 1,918,180.8475 E 1,064,299.8430
 Delta = 28° 34' 50.14" (LT)
 Degree = 11° 47' 21.32"
 Tangent = 123.7922
 Length = 242.4292
 Radius = 486.0000
 External = 15.5182
 Long Chord = 239.9235
 Mid. Ord. = 15.0380
 P.C. Station 10+27.76 N 1,918,259.3084 E 1,064,204.0912
 P.T. Station 12+70.18 N 1,918,157.7546 E 1,064,421.4622
 C.C. N 1,918,635.2235 E 1,064,512.1234
 Back = S 50° 40' 05.33" E
 Ahead = S 79° 14' 55.47" E
 Chord Bear = S 64° 57' 30.40" E

Course from PT E ARMY B-3 to 981 S 78° 52' 59.95" E Dist 194.6289

Point 981 N 1,918,120.2287 E 1,064,612.4392 Sta 14+64.81

RAMP E_ARMY_C

Point 990 N 1,919,757.2216 E 1,064,802.4598 Sta 0+00.00

Course from 990 to 991 S 0° 49' 20.54" E Dist 48.2451

Point 991 N 1,919,708.9815 E 1,064,803.1523 Sta 0+48.25

Course from 991 to 992 S 0° 55' 38.53" E Dist 311.2266

Point 992 N 1,919,397.7956 E 1,064,808.1895 Sta 3+59.47

Course from 992 to 993 S 1° 52' 40.36" E Dist 135.3913

Point 993 N 1,919,262.4771 E 1,064,812.6261 Sta 4+94.86

Course from 993 to 994 S 4° 40' 30.39" E Dist 81.9566

Point 994 N 1,919,180.7932 E 1,064,819.3061 Sta 5+76.82

Course from 994 to PC E ARMY C-1 S 2° 45' 45.90" E Dist 94.7687

Curve Data

Curve E ARMY C-1
 P.I. Station 7+40.10 N 1,919,017.7041 E 1,064,827.1762
 Delta = 7° 50' 18.36" (LT)
 Degree = 5° 43' 46.48"
 Tangent = 68.5101
 Length = 136.8065
 Radius = 1,000.0000
 External = 2.3441
 Long Chord = 136.6998
 Mid. Ord. = 2.3386
 P.C. Station 6+71.59 N 1,919,086.1346 E 1,064,823.8739
 P.T. Station 8+08.39 N 1,918,950.3634 E 1,064,839.7801
 C.C. N 1,919,134.3350 E 1,065,822.7116
 Back = S 2° 45' 45.90" E
 Ahead = S 10° 36' 04.25" E
 Chord Bear = S 6° 40' 55.08" E

Course from PT E ARMY C-1 to PC E ARMY C-2 S 10° 36' 04.25" E Dist 80.1742

Curve Data

Curve E ARMY C-2
 P.I. Station 9+19.22 N 1,918,841.4269 E 1,064,860.1693
 Delta = 3° 51' 46.34" (LT)
 Degree = 6° 18' 11.40"
 Tangent = 30.6539
 Length = 61.2847
 Radius = 909.0000
 External = 0.5167
 Long Chord = 61.2730
 Mid. Ord. = 0.5164
 P.C. Station 8+88.57 N 1,918,871.5576 E 1,064,854.5299
 P.T. Station 9+49.85 N 1,918,811.7445 E 1,064,867.8258
 C.C. N 1,919,038.7878 E 1,065,748.0146
 Back = S 10° 36' 04.25" E
 Ahead = S 14° 27' 50.60" E
 Chord Bear = S 12° 31' 57.43" E

Course from PT E ARMY C-2 to PC E ARMY C-3 S 14° 27' 50.60" E Dist 97.9104

Curve Data

Curve E ARMY C-3
 P.I. Station 16+89.13 N 1,918,095.8955 E 1,065,052.4779
 Delta = 61° 26' 55.16" (LT)
 Degree = 5° 18' 33.69"
 Tangent = 641.3705
 Length = 1,157.3651
 Radius = 1,079.1470
 External = 176.2073
 Long Chord = 1,102.6896
 Mid. Ord. = 151.4740
 P.C. Station 10+47.76 N 1,918,716.9374 E 1,064,892.2812
 P.T. Station 22+05.13 N 1,917,939.7860 E 1,065,674.5599
 C.C. N 1,918,986.4788 E 1,065,937.2241
 Back = S 14° 27' 50.60" E
 Ahead = S 75° 54' 45.76" E
 Chord Bear = S 45° 11' 18.18" E

FILE NAME =	DESIGNED - AJP	REVISED -	benesch	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ALIGNMENT PLAN I-355 CURVE DATA			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...\\expln_ABC\CL\355_R_Data\exalign_31.dgn	DRAWN - TMB	REVISED -			221, 1-1, 2&3/RS-7	DUPAGE	546	48				
USER NAME = jmajewski	CHECKED - JMM	REVISED -			*290,355	CONTRACT NO. 60G51						
PILOT DATE = 11/13/2009	DATE = 10/16/09	REVISED -			FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT					
SCALE: N.T.S.					SHEET NO. 23 OF 44 SHEETS	STA.	TO STA.					